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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/575,349	11/06/2006	Dianna Bowles	5585-74167-01	2021
	7590 06/16/200 AW GROUP PLLC	8	EXAMINER	
1201 THIRD A	VENUE, SUITE 330		PAGE, BRENT T	
SEATTLE, WA	7 70101		ART UNIT	PAPER NUMBER
			1638	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Disposition of Claims 10575,349		Application No.	Applicant(s)				
BRENT PAGE BRENT BRANDHOLD BRENT PAGE B	Office Action Comments	10/575,349	BOWLES ET AL.				
— The MALLING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ½ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Eledension of time myb e available under the provides of SCF81.13(a), in ne event, however, may areply be timely filed after SK (5) MONI HS from the mailing date of his communication of the school of th	Office Action Summary	Examiner	Art Unit				
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of ther may be waitable under the provisions of 3 CFR 1.13(a). In or event, however, may a reply be timely filed offer SIX (6) MONITES from the mailing date of this communication. If ND period for reply is specified above, the mainten statutory period will apply and will expire SIX (6) MONITES from the mitting date of this communication. If ND period for reply is specified above, the mainten statutory period will apply and will expire SIX (6) MONITES from the mitting date of this communication. Any reply recisived by the Office later than these months after the mailing date of this communication, even if timely filled, may reduce any carried patent term adjustment. See 37 CFR 1.704(b). Status 1) □ Responsive to communication(s) filled on 06 April 2006 2a) □ This action is FINAL. 2b) □ This action is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) □ Claim(s) 1-28 is/are pending in the application. 4a) □ Of the above claim(s) is/are withdrawn from consideration. 5□ □ Claim(s) is/are allowed. 5□ □ Claim(s) is/are rejected. 7□ □ Claim(s) is/are rejected. 8) □ Claim(s) is/are rejected. 8) □ Claim(s) 1-28 are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filled on is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11□ □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12□ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d)		ears on the cover sheet with the c	orrespondence address				
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1) 🔀 Notice of References Cited (PTO-892) 4) 🔲 Interview Summary (PTO-413)		_					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date	te						

DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Group I, claims 1-25 and 28, drawn to a transgenic cell and a plant comprising said transgenic cell.

Group II, claim 26, drawn to a method for modulating the lignin content of a plant.

Group III, claim 27, drawn to a method of manufacture of paper or board from a transgenic plant.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

The sequences are linked by the technical feature of being glucosyltransferases, however, this feature is not special because it does not constitute an advancement over the prior art. Lim et al (2001 Journal of Biochemistry 276:4344-4349) teach glucosyltransferase genes involved in lignin synthesis (see Figure 1 and Figure 2 for example).

Additionally, Groups I-III each require elements not required by the other groups.

Group I requires particular SEQ ID NOs and plant transformation steps and materials not required by Groups II and III. Group II requires method steps and materials for determining lignin content not required by Groups I and III, and Group III

requires method steps and materials for manufacturing paper not required by Groups I or II.

For the reasons given above Groups I-III are distinct from one another and restriction is therefore proper.

In addition to the restriction requirement above, Applicant is also required to elect a single SEQ ID NO representing the elected invention.

The claims are generic to 3 patentably distinct nucleic acid sequences SEQ ID NO: 3, SEQ ID NO:5 and SEQ ID NO:1.

The sequences are linked by the technical feature of being glucosyltransferases, however, this feature is not special because it does not constitute an advancement over the prior art. Lim et al (2001 Journal of Biochemistry 276:4344-4349) teach glucosyltransferase genes involved in lignin synthesis (see Figure 1 and Figure 2 for example).

Applicants must select a single SEQ ID NO: representing a single nucleic acid, either SEQ ID NO:1 OR SEQ ID NO: 3 OR SEQ ID NO:5.

Upon election of a sequence, the claims that read upon the sequence will be examined accordingly. Applicant is further required to point out which gene or activator is being selected with the SEQ ID NO: in order to facilitate examination. Distinctly different DNA sequences are structurally distinct chemical compounds and are deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is

presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq.

Applicant is required to elect a Group above representing a single nucleotide sequence. Electing a sequence is not to be construed as a requirement for an election of species, since each nucleotide sequence is not a member of a single genus of invention, but constitutes and independent and patentably distinct invention.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Application/Control Number: 10/575,349 Page 5

Art Unit: 1638

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brent Page whose telephone number is (571)-272-5914. The examiner can normally be reached on Monday-Friday 7-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571)-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Phuong T. Bui/ Primary Examiner, Art Unit 1638

Brent T. Page